

VEXpro Match Drill Guide

What is Match Drilling?

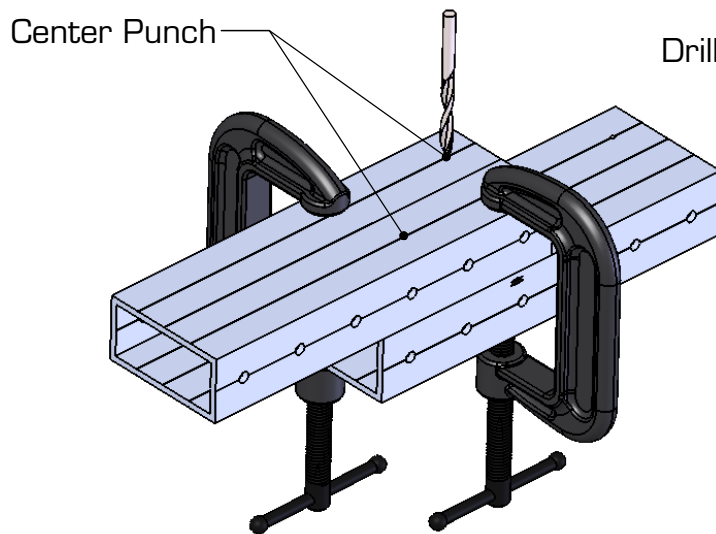
The process of drilling a hole through multiple assembled parts at once, ensuring that the parts align properly in the final assembly. One or more of these parts may include pre-punched holes from the manufacturer.

Case 1:

You have several pieces with no holes drilled yet.

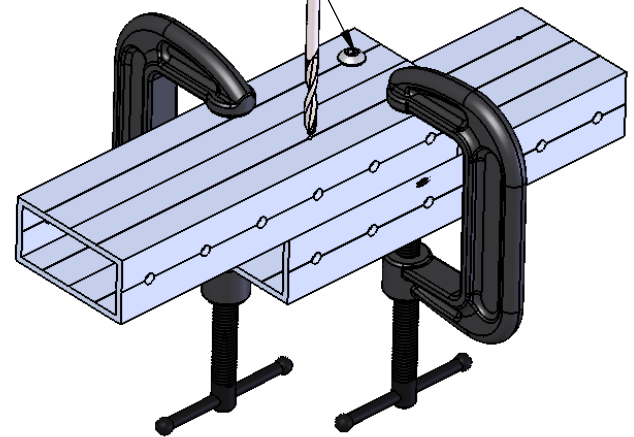
Procedure:

- Clamp your parts together and drill the required holes at the same time to guarantee consistent hole position
- Mark hole locations with a center punch before drilling and use a drill press for help with alignment
- After drilling your first hole, put a locating pin in it to guarantee your pieces do not shift. We recommend a screw, rivet, or other temporary metal fastener, properly sized.



Drill 1st hole

Drilled hole pinned with bolt



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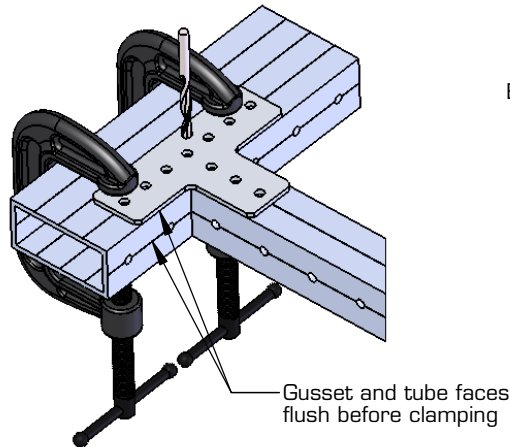
Case 2:

You have one part with holes that you wish to transfer to another.

Procedure:

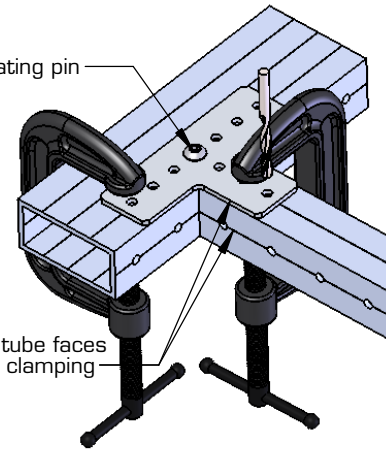
- Line up both pieces then clamp in place,
- Drill through the holes you'd like to copy.

Note: Look for features you can use to locate your parts precisely.
For example, this is why many of the VersaFrame gussets are 1" wide.



Bolt functioning as locating pin

Gusset and tube faces flush before clamping

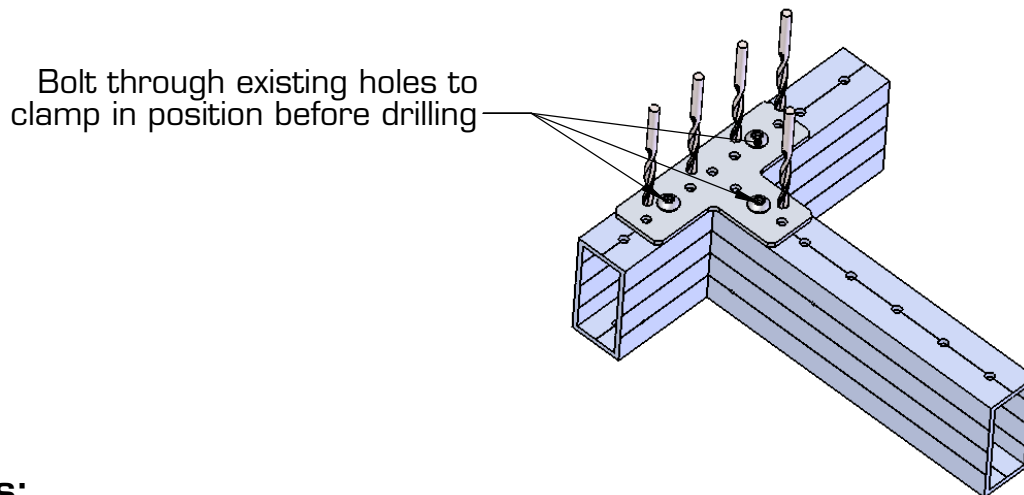


Case 3:

You have two pieces with holes, but wish to drill several more matching holes through.

Procedure:

- Pin the matching holes
- Drill new holes through as needed



Other Tips:

If you would like to minimize the risk of enlarging an original hole, you may remove the template part after starting to drill. A transfer punch can also be used to mark the hole location after aligning the parts.

Keep in mind that you can use parts to copy hole patterns even if you aren't using that particular part. For example, you can use many VersaFrame gussets as templates to put a 1/2" hole pattern in other parts.